: SADDLE FITTING, FWD (OUTBOARD/INBOARD)

16 Um:

Each

Date:

Thursday, 6/29/2006 8:27:55 AM

User:

Kim Johnston

**Process Sheet** 

**Drawing Name** 

Part Number

Material **Due Date** 

**Drawing Number** 

Project Number

**Drawing Revision** 

: D2571

: N/A

. D2571 REV E

: 7/15/2006

Customer

: CU-DAR001 Dart Helicopters Services

S.O. No. : NA

Job Number : 27761 **Estimate Number** 

P.O. Number

: 10530 ALU:

This Issue

: 6/29/2006

: MA

: 27056 Previous Run

Written By

Prsht Rev.

First Issue

**Checked & Approved By** 

Comment

1 02.10.02

Re-format; Change to Dwg Rev. D &

: MACHINED PARTS

incorporated D2572KJ

**Additional Product** 

Job Number:



Seq. #:

**Machine Or Operation:** 

Description: 7075-T7351 8.25X7.75X2.5

1.0 D6101007



Comment: Qty.: 1.0000 Each(s)/Unit

Total: 16.0000 Each(s)

7075-T7351 8.25X7.75X2.5

Make from D6101-007 billet for D2571

Ensure that grain is along 7.75" length

Batch No:

1323481 × 16

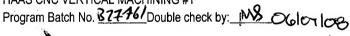
2.0 HAAS1



HAAS CNC VERTICAL MACHINING #1



Comment: HAAS CNC VERTICAL MACHINING #1



1-Machine Step No 1 per Folio FA051 and inspect per attached Dimension Sheets

2-Machine Step No 2 per Folio FA051 and inspect per attached Dimension Sheets 3-Machine Step No 3 per Folio FA051 and inspect per attached Dimension Sheets

4-Deburr and remove all machining marks

5-Tumble to remove sharp edges.

MILLING CONV

CONVENTIONAL MILLING MACHIN

Comment: CONVENTIONAL MILLING MACHINE

Machine keyway as per dwg D2571 & D2572



4.0

QC2

INSPECT PARTS AS THEY COME OFF MACHINE



Comment: INSPECT PARTS AS THEY COME OFF MACHINE



Page 1

Form: rprocess

## **Dart Aerospace Ltd**

W/O:					WORK O	RDER CHANG	GES	100				
DATE	STEP			PROCEDURE	CHANGE	*		Ву	Date	Qty	Approval Mfg / Design Mgr	Approval QC Inspector
						÷						
			7								·	÷
						A	1.		•			2
		•							Tu. 14			

NCR: 2	7161	W	WORK ORDER NON-CONFORMANCE (NCR)							
		Description of NC		Corrective Action Section B	Verification	Approval	Approval			
DATE	STEP	Section A			Sign & Date	Section C	Design Mgr	Approval QC Inspector		
0607.1	23	Scalle-to-skidtube holes offset to one side. 0.500 dimonsion is 0.475	P	SCRAP - destroy	Er		P	(/		
		0.500 dimension is 0.475	0607.10 per 95142	SCRAP - destroy  Ref DS email  replace.	dd67/14	0607-3	06.07.10 P° QSI L472	06073		
				r spirre.						
				1.2		*				
								•		

Part No: <u>D2571</u>

PAR #: NA Fault Category: RAW - CNC NCR:

(Yes No DQA:

NOTE: Date & initial all entries

QA: N/C Closed:

Date: 00.07.20

Date: Thursday, 6/29/2006 8:27:56 AM User: Kim Johnston **Process Sheet** Drawing Name: SADDLE FITTING, FWD (OUTBOARD/INBOARD) \_ Customer: CU-DAR001 Dart Helicopters Services Part Number: D2571 Job Number: 27761 Job Number: Seq. #: Description: **Machine Or Operation:** SECOND CHECK 5.0 QC8 Comment: SECOND CHECK 42 6.0 HAND FINISHING1 HAND FINISHING RESOURCE #1 Comment: HAND FINISHING RESOURCE #1 SAD Acid etch and Alodine as per QSI 005 4.1 7.0 POWDER COATING POWDER COATING Comment: POWDER COATING Powder Coat White Gloss (Ref. 4.3.5.1) as per QSI 005 4.3 8.0 Comment: INSPECT POWDER COAT 9.0 PACKAGING 1 PACKAGING RESOURCE #1 Comment: PACKAGING RESOURCE #1 Identify and Stock Location:\_ 10.0 DC Comment: DOCUMENT CONTR Inspection Level 21 Job Completion

## Dart Aerospace Ltd

W/O:			WO	RK ORDER CHA	ANGES	-				
DATE	STEP	PROC	EDURE CHAN	NGE		Ву	Date	Qty	Approval Mfg / Design Mgr	Approva QC Inspector
		į.								
4.0				A. J						
			+		····					
			· · · · · · · · · · · · · · · · · · ·		-	l L				
NCR:		, W	ORK ORDE	R NON-CONFO	RMANCI	(NCR	.)			
DATE	OTED	Description of NC	Corrective Action Section B				Verifica	ation	Approval	Approval
DATE	STEP	Section A	Initial Design Mgr	Action Descript Design Mgr	tion	Sign & Date	Sectio		Design Mgr	QC Inspecto
	- 3 -			ti						•
	<u>-</u> .							i.		- <del>-</del> -
		(2)		100	·					
									-	
Ġ.		,								-
					1	••				
		de								
				1			÷		HC.	
Part No		PAR #: F	ault Category	<b>/:</b>	NCR: Ye	s No	DQA:		Date:	•
NOTE: D	ate & initio	al all entries	- •	-		· N/C CI			Date:	

H:\forms\Quality Assurance\approved forms\NCRWO revC

DART AEROSPACE LTD	Work Order:	27761
Description: Saddle, Fwd Outboard	Part Number:	D2571
Inspection Dwg: D2571 Rev. E		Page 1 of 1

				Re	corded Actu	ual Dimensi	ons		195
Dim	Min	Max	Go/No Go Gauge	1	2	3	4	Ву	Date
Α	0.438	0.443	DT8682	6 441	0-441	0.441	0.44/		
В	1.745	1.755		1.748	1.747	11.747	1.745		
С	3.495	3.505		3.496	3-496	3 497	3_499		
D	1.745	1.755		1.748	1-747	1.747	1.746		
E	7.990	8.010		7.993	7.996	7.998	7-497		-
F	0.490	0.510		0.493	6. 494	0.495	0.499		_
G	0.257	0.262	DT8683	0-259	0.259	0.259	0.259		_
Н	0.375	0.380	DT8684	0.377	2.377	0.377	0.377		
ı	0.490	0.510		0.497	0-493	0.494	0 - 99 5		
J	1.174	1.184		1.175	1.177	1-177	1.180		
K	0.558	0.578		0.560	0.561	0.562	0.563		
L	1.174	1.184		1475	1,475	1 - 478	1-1178		
М	1.490	1.500		1.493	1.494	1.495	1,499		-
N	2.495	2.505		2.448	2.497	9.448	2.499		
0	3.869	3.879		3.877	3 -872	3.871	3.873	,	
Р	0.115	0.135		0.126	0.127	0.126	0.127		
Q	0.115	0.135		0-135	0.135	5.135	0.135		`^
R	0.240	0.260		0.253	6.254	0.254	0.255		
S	0.115	0.135		0.118	0.119	0.100	0.131		
T	0.178	0.198		0.188	0.198	0-188	Q .461		
U	2.940	2.980		2.960	2.961	2.960			
V	0.230	0.250	7	0.236	0.737	0.236	0.237		
W	0.115	0.135		0-115	0.1/8	0.118	6.119		
Х	0.308	0.313		0.310	0.310	0.30	0.310		
Υ	0.760	0.765		0.765	0.765	0.765	0-765		
Z	0.352	0.372		0367	0.364	0.364	0.365		
AA	0.470	0.530		0-500	0.500	057.6	8.500		
AB	0.615	0.635		G.623	0.624	0.624			
AC	0.053	0.073		0.063	0-063	0.063	0.063		
AD	0.240	0.260		0.744	0. 244	0.243	0.349		
AE	1.375	1.395		1,388	1.385	1.385	1366		
AF	0.115	0.135		e-135	0.135	0 135	0-135		
AG	0.240	0.280		0.260	0-260	0.560	0.590		
AH	0.240	0.260		0.249	0 240	0.247	6.247		
Al	2.000	2.020		2003	ZOD	2.000	2.600		
AJ	0.023	0.043		0.030	0.030	0030	0050		
	Acc	ept/Reje	ct	5.					

Measured by:	cn/5.6	Audited by SN
Date:	06107110	Date: 06,07,13

Rev	Date	Change	Revised by	Approved
Α		New Issue	RF	
В	02.09.24	Re-format; Added Rev. D	KJ	
С	02.10.11	Re-format; Added DT8682, DT8683, DT8684	KJ	
D	05.05.05	Added dimension Al	KJ/RF	-1
Е	05.12.05	Added dimension AJ	KJ/JLM o	

DART AEROSPACE LTD	Work Order:	27761
Description: Saddle, Fwd Outboard	Part Number:	D2571
Inspection Dwg: D2571 Rev. E		Page 1 of 1

				Red	corded Actu	ıal Dimensi	ons		
Dim	Min	Max	Go/No Go Gauge	1	2	3	4	Ву	Date
Α	0.438	0.443	DT8682	0.441	0.440	0.440	0.440		_
В	1.745	1.755		1-748	1.747	17747	1.745		
С	3.495	3.505		3.499	3-448	3.497	3.498		
D	1.745	1.755		1-747	1-748	1.749	1.745		
E	7.990	8.010		8.001	8.000	8.000	8-001		
F	0.490	0.510		0.499	0.498	0-497	0.499		
G	0.257	0.262	DT8683	0.258	0.258		0.258		
Н	0.375	0.380	DT8684	0.376	0-376	0.376	0.376		
1	0.490	0.510		७. प्रेष्ट	0-497	0-498	0.495		
J.	1.174	1.184		1-179	0.180	10179	1.175		
K	0.558	0.578		0.569	0.568	0-567	0559		
L	1.174	1.184		1.198	1 "180	1-178	1.175		
M	1.490	1.500		1.498	1-447	1-496	1.495		
N	2.495	2.505		2.501	3.871	2.497	2.497		
0	3.869	3.879		3-872	3.871	3-871	3.869		
P	0.115	0.135	•	6.130	0.131	0-130	0.126		.,4,,*.**12
Q	0.115	0.135		0-124	0.124	0-191	0.135		
R	0.240	0.260		0.249	0,250	०-२५%	0.253		
S	0.115	0.135		0.130	0.131	0-129	6.125		
T	0.178	0.198		0.188	0.168	୦ . ୮୭୫	0.188		
U	2.940	2.980			8-960	2.961	2.960		
V	0.230	0.250		0.241	0.943	0.941	6.738		
W	0.115	0.135		0.130	0-130	0-130	0-119		•
Χ	0.308	0.313		0,310	0 - 310	0.310	0.310		
Y	0.760	0.765	i	0.761	0.761	0.761	0.76!		
Z	0.352	0.372		0.364	0.365	D.365			
AA	0.470	0.530		0.500	0.500	0-500	0.500		
AB	0.615	0.635		6.635 6.063	0-624	0-691	0.626		
AC	0.053	0.073		0.063	0-063	0.063	0.063		
AD	0.240	0.260		0. 356	6.249	6-248	0.7564		
AE	1.375	1.395	4.0	1.384		1.384	1.385		
AF	0.115	0.135	***	0,130		0.138	0.135	ļ.,	
AG	0.240	0.280		0.260	0-250	0. 247	0.260		
AH	0.240	0.260		6.248	0-247		0.248		
Al	2.000	2.020		9.000	2.001	2.003	9,009		
AJ	0.023	0.043		6.033	0.033	0~033	0.033		
	Acc	ept/Reje	ct						

Measured by:	5.G/E	Audited by	$\mathcal{Q}_{\mathcal{Z}}$	100
Date:	06(07/13	Date:	06,01/2	
• • • • • • • • • • • • • • • • • • • •	1,1,5			

Rev	Date	Change	Revised by	Approved
Α		New Issue	RF	
В	02.09.24	Re-format; Added Rev. D	KJ	
С	02.10.11	Re-format; Added DT8682, DT8683, DT8684	KJ	
D	05.05.05	Added dimension Al	KJ/RF	-1
E	05.12.05	Added dimension AJ	KJ/JLM 🚜	- Cull

DART AEROSPACE LTD	Work Order:	21761
Description: Saddle, Fwd Outboard	Part Number:	D2571
Inspection Dwg: D2571 Rev. E		Page 1 of 1

			Recorded Actual Dimensions						
Dim	Min	Max	Go/No Go Gauge	1	2	3	4	Ву	Date
Α	0.438	0.443	DT8682	0.441	0-441	0.441	0.441		
В	1.745	1.755		1.745	1 345	1746	1.746		
С	3.495	3.505		3.500	3.497	3.495	3.495		
D	1.745	1.755		1.745	1.745	1.746	4746		
E	7.990	8.010		8-052	8.002	8.001 0.496	8.002		
F	0.490	0.510		0.498	0.496	0.496	0.453		
G	0.257	0.262	DT8683	0.259	0.259	0.259	6.259		
Н	0.375	0.380	DT8684	0.377					
ı	0.490	0.510		0.497	0494	6.496	0.496		
J	1.174	1.184		1.176	1176	1.175	1.178		
K	0.558	0.578		0.564	0.564	6.560	0.560		
L	1.174	1.184		1.176	1.176	1.175	1.178		
М	1.490	1.500		1.491	1.494	1.492	1.496		
N	2.495	2.505		2.495	2.499	3.869	7.497		
0	3.869	3.879		3.269	3.843	3.869	3.842		
Р	0.115	0.135		0.126	0.126	0.123	0.125		
Q	0.115	0.135		0.135	0.135	0.135	6.135		
R	0.240	0.260		0.253	0.753	6.252			
S	0.115	0.135		0.127			0.127		
Т	0.178	0.198		0-188	0.188	0.188	6.188		4
U	2.940	2.980		2-960	2-960	2.960	2.960		
V	0.230	0.250		0.235	0.253	0.237			
W	0.115	0.135		0.125	0.12	6.122	0.123		
Х	0.308	0.313		0.310	0.310	0.30	6.310		
Υ	0.760	0.765			0.765	6.765	0.765		
Z	0.352	0.372		0.363	0.363	0.360	6.365		
AA	0.470	0.530		0.560	0.500	502-0	0500		
AB	0.615	0.635		0.625	8.622	0.678	0.629		
AC	0.053	0.073	į.	c 663	0.063	6-663	0-063		
AD	0.240	0.260		0. 245	0.548	6.246	0.246		
ΑE	1.375	1.395		1.385	1.384	1.385	1.386		
AF	0.115	0.135		0-135	0-135	6 735	6-135		
AG	0.240	0.280		0.260	0.260	0.260	0.260		
AH	0.240	0.260		6.247	6.251	0.248	8.248		
Al	2.000	2.020		7.000	2.000	2.000	2.000		
AJ	0.023	0.043		0.030	6.030	0.030	6-030		
	Acc	ept/Reje	ct						

Measured by:	Audited by \ \Sigma \D
Date: Glolo7114	Date: 06.01.18

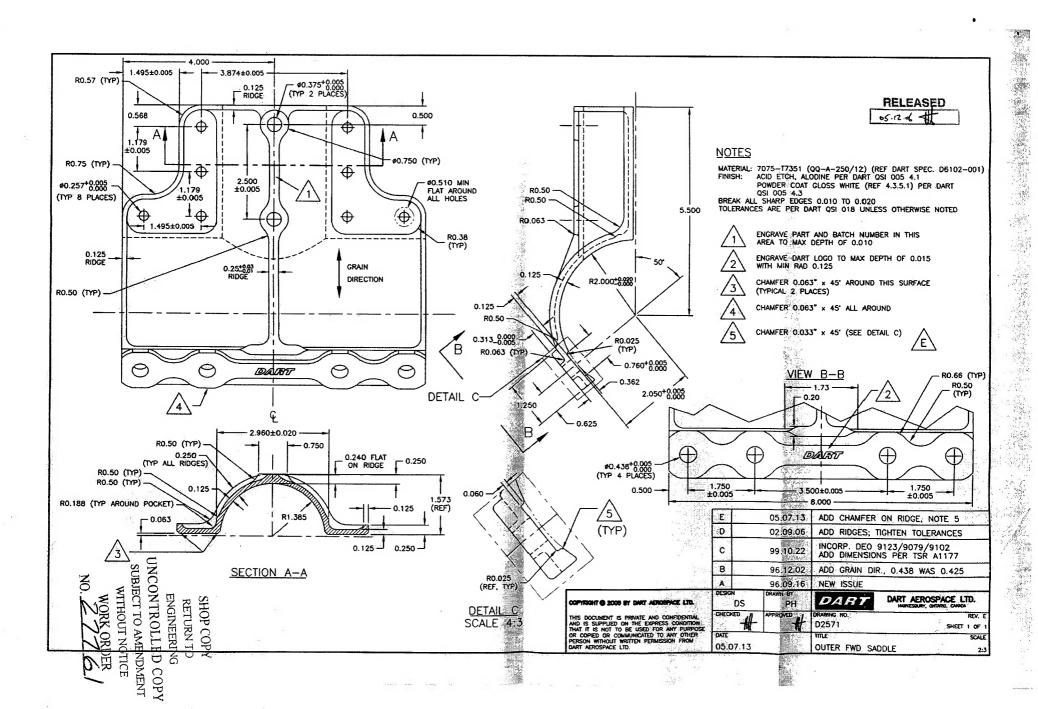
Rev	Date	Change	Revised by	Approved
Α		New Issue	RF	
В	02.09.24	Re-format; Added Rev. D	KJ	
С	02.10.11	Re-format; Added DT8682, DT8683, DT8684	KJ	
D	05.05.05	Added dimension Al	KJ/RF	-1
E	05.12.05	Added dimension AJ	KJ/JLM 🚓	Gill

DART AEROSPACE LTD	Work Order:	27761	
		1.7	
Description: Saddle, Fwd Outboard	Part Number:	D2571	
Inspection Dwg: D2571 Rev. E		Page 1 of 1	

- 3			Recorded Actual Dimensions						
Dim	Min	Max	Go/No Go Gauge	1	2	3	4	Ву	Date
Α	0.438	0.443	DT8682	0-441	0.411	0.441	0.441		
В	1.745	1.755		1.74%	1 747	1,747	1.746		
C	3.495	3.505		3,501	3,500	3 499	3.498		
D	1.745	1.755		1,747	1.746	1.747	1.746		
E	7.990	8.010		B.001	8.001	8.001	8.000		
F	0.490	0.510		0.500	0. 499	0-499	0.498		
G	0.257	0.262	DT8683	0.759	6.259	0.759	0.755		
Н	0.375	0.380	DT8684	0.377	0.377	0.311	0.374		
1	0.490	0.510		0-498	0.444	0.499	0 - 447		
J	1.174	1.184		1(180	1.179	1.178	179		
K	0.558	0.578		0.568	0.569	0-569	0.568		
L	1.174	1.184		1.180	1.180	1.179	1 . 179		
М	1.490	1.500		1-501	1.501	1.502	1. 501		
N	2.495	2.505		2.498		2 498	2.44?	1	
0	3.869	3.879		3.874	3 874	3~873	3.873		
Р	0.115	0.135		0-130	0.122	0.131	0.192		
Q	0.115	0.135		6.135	0-135	0.135	0-135		
R	0.240	0.260		0.249	6.248	0.247	0.246		
S	0.115	0.135		0,120	0.127	a las	0.124		
T _	0.178	0.198		6.188	0.198	0.188	0./88		
U	2.940	2.980		2960	2.960	2.960	2.960		
V	0.230	0.250		0.240		0.341	0.240		
W	0.115	0.135		6.131	0.133	0.137	0:126		
Х	0.308	0.313		0.310	0-310	0.230	0.810		
Υ	0.760	0.765		0.765	0.765	0.363	0.765		
Z	0.352	0,372		0-364	0.363	6.369	0.364		
AA	0.470	0.530		0.580	0.500	0.500	0.500		
AB	0.615	0.635	*	0-634		8 · 698	0.638		
AC	0.053	0.073		0-063	0.063	0.063	0.063		
AD.	0.240	0.260		6.250	0-249	846,0	0.247		
AE	1.375	1.395		1.385	1.385		888		
AF	0.115	0.135		6.135	6-135	0.135	0-135		
AG	0.240	0.280		0.260	6.260	0.260	0.260		
AH	0.240	0.260		0.246	6.347		0.247		
ΑI	2.000	2.020	***	2.000	4.000	2.001	3.000		
AJ	0.023	0.043		0.630	0-030	0.030	0.039		
	Acc	ept/Reje	ct						

Measured by: 3.6	Audited by SD
Date: 06/07/15	Date: 06.07.18

Rev	Date	Change	Revised by	Approved
Α		New Issue	RF	
В	02.09.24	Re-format; Added Rev. D	KJ	
С	02.10.11	Re-format; Added DT8682, DT8683, DT8684	KJ	
D	05.05.05	Added dimension Al	KJ/RF	- 1
Е	05.12.05	Added dimension AJ	KJ/JLM	911



## **Chris Provencal**

From: David Shepherd [dshepherd@dartaero.com]

Sent: July 10, 2006 2:25 PM

To: 'Chris Provencal'

Subject: RE: NCR 205 Saddles

Lagree. Scrap them.

David

**From:** Chris Provencal [mailto:cprovencal@dartaero.com]

**Sent:** Monday, July 10, 2006 11:30 AM **To:** David Shepherd (David Shepherd)

Cc: 'Serge Shahbazian'
Subject: NCR 205 Saddles

David:

D2572 Saddle, the saddle-to-skidtube holes are offset 0.016" to one side.

D2571 Saddle, the saddle-to-skidtube holes are offset 0.025" to one side.

I would be tempted to scrap them, at least the 0.025" one because I know how hard it is already to assembly the bushings into the saddles and have everything line up.

-Chris